

# Succinic acid, 2,2,3,3,4,4,4-heptafluorobutyl octadecyl ester

Inchi:	InChI=1S/C26H43F7O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-36-22(34)18-19
InchiKey:	FOUYMQHVWSPHW-UHFFFAOYSA-N
Formula:	C26H43F7O4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	552.61

## Physical Properties

Property code	Value	Unit	Source
gf	-1654.95	kJ/mol	Joback Method
hf	-2468.59	kJ/mol	Joback Method
hfus	67.99	kJ/mol	Joback Method
hvap	82.17	kJ/mol	Joback Method
log10ws	-9.72		Crippen Method
logp	8.947		Crippen Method
mvol	404.470	ml/mol	McGowan Method
pc	664.26	kPa	Joback Method
rinpol	2614.00		NIST Webbook
rinpol	2614.00		NIST Webbook
tb	932.06	K	Joback Method
tc	1160.55	K	Joback Method
tf	538.49	K	Joback Method
vc	1.633	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1392.96	J/molxK	932.06	Joback Method
cpg	1414.11	J/molxK	970.14	Joback Method
cpg	1433.75	J/molxK	1008.22	Joback Method
cpg	1452.01	J/molxK	1046.31	Joback Method
cpg	1469.04	J/molxK	1084.39	Joback Method
cpg	1484.97	J/molxK	1122.47	Joback Method
cpg	1499.95	J/molxK	1160.55	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382365&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382365&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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